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Total Number of Pages in This Submission

Application Number	10/707,744
Filing Date	January 8, 2004
First Named Inventor	Sugar et al.
Art Unit	2685
Examiner Name	Not Yet Known
Attorney Docket Number	COG-2-0977.02.US

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ENCLOSURES (Check all that apply)

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Firm Name	VOLPE AND KOENIG, P.C.		
Signature			
Printed name	Anthony L. Venezia		
Date	September 15, 2006	Reg. No.	48,382

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the **PATENT APPLICATION** of:

Sugar et al.

Application No.: 10/707,744

Confirmation No.: 1743

Filed: January 8, 2004

For: MULTIPLE-INPUT MULTIPLE-
OUTPUT RADIO TRANSCEIVER

Group: 2685

Examiner: Not Yet Known

Our File: COG-2-0977.02.US

Date: September 15, 2006

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment
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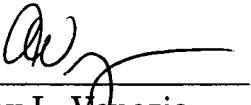
Further to Applicants' Duty of Disclosure pursuant to 37 C.F.R. §1.56, Applicants wish to bring to the Examiner's attention the material cited on the enclosed PTO-1449 form. Newly cited documents are indicated by an asterisk (*). Copies of the cited documents are enclosed.

**Applicant: Sugar et al.
Application No.: 10/707,744**

It is respectfully requested that the Examiner consider these documents and return an initialed copy of the PTO-1449 form indicating his consideration of the cited materials.

Respectfully submitted,

Sugar et al.

By 
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ALV/akg
Enclosures (12)



FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)			ATTY. DOCKET NO. COG-2-0977.02.US		SERIAL NO. 10/707,744		
			APPLICANT Sugar et al.				
			FILING DATE January 8, 2004		GROUP 2685		
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		4,150,344	04/1979	Fenk			
		4,263,676	04/1981	Liebel			
		4,310,809	01/1982	Buck et al.			
		4,580,289	04/1986	Enderby			
		4,696,055	09/1987	Marshall			
		4,905,306	02/1990	Anderson			
		5,150,085	09/1992	Hales			
		5,220,688	06/1993	Tao			
		5,548,825	08/1996	Maemura et al.			
		5,579,341	11/1996	Smith et al.			
		5,606,736	02/1997	Hasler et al.			
		5,715,529	02/1998	Kianush et al.			
		5,752,169	05/1998	Hareyama et al.			
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		5,832,375	11/1998	Leisten et al.			
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		6,125,266	09/2000	Matero et al.			
		6,151,354	11/2000	Abbey			
		6,157,822	12/2000	Bastini et al.			
		6,215,988	04/2001	Matero			
		6,239,645	05/2001	Tsukahara et al.			

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	6,252,548	06/2001	Jeon			
	6,259,895	07/2001	Yoshikawa et al.			
	6,282,413	08/2001	Baltus			
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	6,359,923	03/2002	Agee et al.			
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	6,542,724	04/2003	Copeland et al.			
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	2002/0164963	11/2002	Tehrani et al.			

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FOREIGN PATENT DOCUMENTS

** Abstract Only

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		APPLICANT Sugar et al.	
		FILING DATE January 8, 2004	GROUP 2685

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

		"Fodus Delivers 802.11B/G and 802.11B/A/G WLAN Total Solutions", http://www.fodus.com/DOCS/2003-09-15%20Fodus%20Press%20Release.htm , September 15, 2003.
		"Parkervision Announces Successful Development of Most Integrated High Performance Wireless LAN Transceiver Chips Current Available", July 30, 2002.
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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	*	Poon et al. "An Adaptive Multiantenna Transceiver for Slowly Flat Fading Channels." IEEE Transactions on Communications, Vol. 51, No. 11, November 2003, pp. 1820-1827.
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	*	Poon et al. "Multiple-Antenna Channels From a Combined Physical and Networking Perspective." IEEE 2002, pp. 1528-1532.

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	*	Poon et al. "A Spatial Channel Model for Multiple-Antenna Systems." IEEE 2004, pp. 3665-3668.	
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		Rudell et al., "Highly Integrated Transceiver Architectures for Adaptive RF Communications", University of California, Berkeley, date unknown.	
		Rudell et al., "Recent Developments in High Integration Multi-Standard CMOS Transceivers for Personal Communication Systems", 1998 International Symposium on Lower Power Electronics, Monterey, California.	
		Rudell et al., "Second Generation Multi-Standard Monolithic CMOS RF Transceiver", University of California, Berkeley, June 16, 1996.	
	*	Vassiliou et al. "A Single-Chip Digitally Calibrated 5.15-5.825-GHz 0.18 μ m CMOS Transceiver for 802.11a Wireless LAN." IEEE Journal of Solid-State Circuits, Vol. 38, No. 12, December 2003, pp. 2221-2231.	
	*	Zhang et al. "A Low-Complexity Antenna Diversity Receiver Suitable for TDMA Handset Implementation." IEEE 1997, pp. 1753-1757.	

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Atty. Docket # COG-2-0977.02.US
Mailed prepaid on: September 15, 2006
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Stop Amendment, Commissioner for Patents, P.O.
Box 1450, Alexandria, VA 22313-1450

IN RE PATENT APPLICATION OF

Inventors: Sugar et al.
Appln. No.: 10/707,744
Filed: January 8, 2004
Title: MULTIPLE-INPUT MULTIPLE-
OUTPUT RADIO TRANSCEIVER

Kindly acknowledge receipt of the following items with respect to the
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ALV/akg